

Bosch GST18V-50N

Bosch GST18V-50N 18V Brushless Top-Handle Jig Saw Instruction Manual

Model: GST18V-50N

1. PRODUCT OVERVIEW

The Bosch GST18V-50N is an 18V cordless brushless top-handle jig saw designed for precision curve cuts and efficient material removal. This tool delivers performance comparable to corded models, offering versatility for various cutting applications in wood, plastic, and metal.



Figure 1: Bosch GST18V-50N 18V Brushless Top-Handle Jig Saw.

Key Features

- **Powerful 18V Brushless Motor:** Delivers up to 3,500 no-load strokes per minute for efficient cutting.
- **Variable-Speed Control:** A dial allows precise adjustment of the operating speed to match the material being cut.
- **Variable-Speed Trigger:** Provides additional control over cutting speed through trigger pressure.
- **Four Orbital-Action Settings:** Adjusts blade stroke for different cutting aggressiveness and material types.
- **Tool-Free T-Shank Blade-Change System:** Enables quick and convenient blade insertion and ejection.
- **Large Die-Cast Aluminum Footplate:** Equipped with a no-mar plastic overshoe to protect work surfaces.
- **Dust Blower:** Keeps the cut line clear of debris for improved visibility.
- **Integrated LED Light:** Illuminates the work area, especially useful in low-light conditions.

VARIABLE SPEED CONTROL

Provides a dial to control operating speed, from 0 to 3,500 no-load strokes per minute

TOOL-FREE BLADE CHANGE SYSTEM

Permits fast, convenient blade insertion and ejection

POWERFUL 18V JIG SAW DESIGN

Delivers up to 3,500 no-load strokes per minute

FOUR ORBITAL-ACTION SETTINGS

Delivers varied blade strokes

CORDED PERFORMANCE

Delivers a cutting capability up to 4.9 in. in wood

DUST BLOWER

Keeps the cut line visible and free of dust

LARGE DIE-CAST ALUMINUM FOOTPLATE

Includes a no-mar plastic overshoe for greater stability



Figure 2: Key features of the Bosch GST18V-50N Jig Saw, including variable speed control, tool-free blade change, orbital action settings, dust blower, and large footplate.

2. SETUP AND ASSEMBLY

2.1 Battery Installation

1. Ensure the jig saw is turned off.
2. Align the battery pack with the battery port on the tool.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the release button on the battery pack and slide it out.

2.2 Blade Installation (Tool-Free)

1. Ensure the tool is disconnected from its power source (battery removed).
2. Locate the tool-free blade clamp lever on the front of the jig saw.
3. Push the lever forward to open the blade clamp.
4. Insert the T-shank jig saw blade into the clamp opening, ensuring the teeth face forward.

5. Release the lever; it should snap back into place, securing the blade. Gently pull on the blade to confirm it is firmly seated.
6. To remove the blade, push the lever forward again, and the blade will eject.

2.3 Footplate Adjustment

The footplate can be adjusted for bevel cuts. Refer to the markings on the footplate for common angle settings. Loosen the footplate adjustment screws, set the desired angle, and securely tighten the screws before operation.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

- To turn on the jig saw, press the trigger switch. The LED light will illuminate the work area.
- To turn off, release the trigger switch.
- For continuous operation, press the lock-on button while the trigger is depressed. To release, press the trigger again.

3.2 Adjusting Speed and Orbital Action

- **Variable Speed Dial:** Rotate the speed dial to select the desired maximum stroke rate (0-3,500 SPM). Lower speeds are suitable for delicate cuts or harder materials, while higher speeds are for faster cuts in softer materials.
- **Variable Speed Trigger:** The trigger allows for fine-tuning of the speed within the range set by the dial. Pressing the trigger further increases the speed.
- **Orbital Action Selector:** Use the orbital action selector to choose one of the four settings. Setting 0 is for straight cuts and fine finishes. Higher settings (1-3) provide more aggressive cutting for faster material removal, especially in wood, but may result in a rougher cut.

3.3 Cutting Procedures

1. **Secure Workpiece:** Always clamp the workpiece firmly to prevent movement during cutting.
2. **Select Blade:** Choose the appropriate T-shank blade for the material and desired cut type (e.g., wood, metal, curve, straight).
3. **Adjust Settings:** Set the speed dial and orbital action according to the material and cut requirements.
4. **Position Tool:** Place the footplate flat on the workpiece, ensuring the blade is clear of the material before starting.
5. **Start Cut:** Depress the trigger and allow the blade to reach full speed before engaging the material. Guide the saw along the cut line with steady pressure.
6. **Maintain Visibility:** The dust blower and LED light will help keep the cut line visible.



Figure 3: Demonstrating a straight cut on a wooden workpiece.



Figure 4: The integrated LED light illuminates the cutting path for enhanced visibility.



Figure 5: The jig saw is capable of cutting various materials, including metal sheets.



Figure 6: The dust blower mechanism helps keep the cut line clear of sawdust.



Figure 7: The compact design allows for versatile cutting positions, including inverted cuts.

4. MAINTENANCE

4.1 General Cleaning

- Always remove the battery pack before performing any cleaning or maintenance.
- Regularly clean the ventilation openings to prevent overheating. Use a soft brush or compressed air.
- Wipe the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the footplate and blade clamp area free of sawdust and debris.

4.2 Blade Care

- Replace dull or damaged blades promptly to ensure efficient and safe cutting.
- Store blades in a dry place to prevent rust.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Bosch GST18V-50N Jig Saw.

5.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly or discharged.	Ensure battery is fully seated. Charge battery if necessary.
Blade not cutting efficiently or binding	Dull or incorrect blade for material. Incorrect speed/orbital setting.	Replace blade. Select appropriate blade type. Adjust speed and orbital action.

Problem	Possible Cause	Solution
Excessive vibration	Loose blade or damaged blade.	Check blade for secure installation. Replace damaged blade.
Cut line obscured by dust	Dust blower blocked.	Clear any obstructions from the dust blower nozzle.

6. SPECIFICATIONS

Detailed technical specifications for the Bosch GST18V-50N 18V Brushless Top-Handle Jig Saw.

Specification	Value
Brand	Bosch
Model Number	GST18V-50N
Power Source	Battery Powered (18V)
Special Feature	Brushless Motor
No-Load Strokes Per Minute (SPM)	0 - 3500 RPM
Max. Cutting Capacity (Wood)	4.9 Inches
Item Weight	5.37 pounds (2.44 Kilograms)
Product Dimensions	8.46"L x 3.1"W x 8.5"H
Included Components	(1) GST18V-50 18V Brushless Top-Handle Jig Saw, (1) Jig Saw Blade, (1) Anti-Splinter Insert, (1) Plastic Overshoe
Surface Recommendation	Plastic, Wood
Blade Material	High Speed Steel
Batteries Required?	Yes (Not Included)

7. WARRANTY AND SUPPORT

7.1 Limited Warranty

Bosch 18V cordless power tools are covered by a five-year limited warranty. This warranty covers defects in material or workmanship for a period of five years from the date of purchase. Please retain your proof of purchase for warranty claims.



BOSCH

18V-Bare Tool

 **18V**
LIMITED
WARRANTY

5 YEAR
Tool

Effective 6/1/23, all 18V products are covered by this updated warranty.
For updated terms, visit <https://rb-pt.io/PowerToolWarranty>
or call 1-877-BOSCH99

Figure 8: Bosch 18V 5-Year Limited Warranty details.

7.2 Contact and Further Information

For detailed warranty terms, product registration, or technical support, please visit the official Bosch Power Tools website or contact customer service:

- **Website:** <https://rb-pt.io/PowerToolWarranty>
- **Customer Service:** 1-877-BOSCH99